

09751659-12000

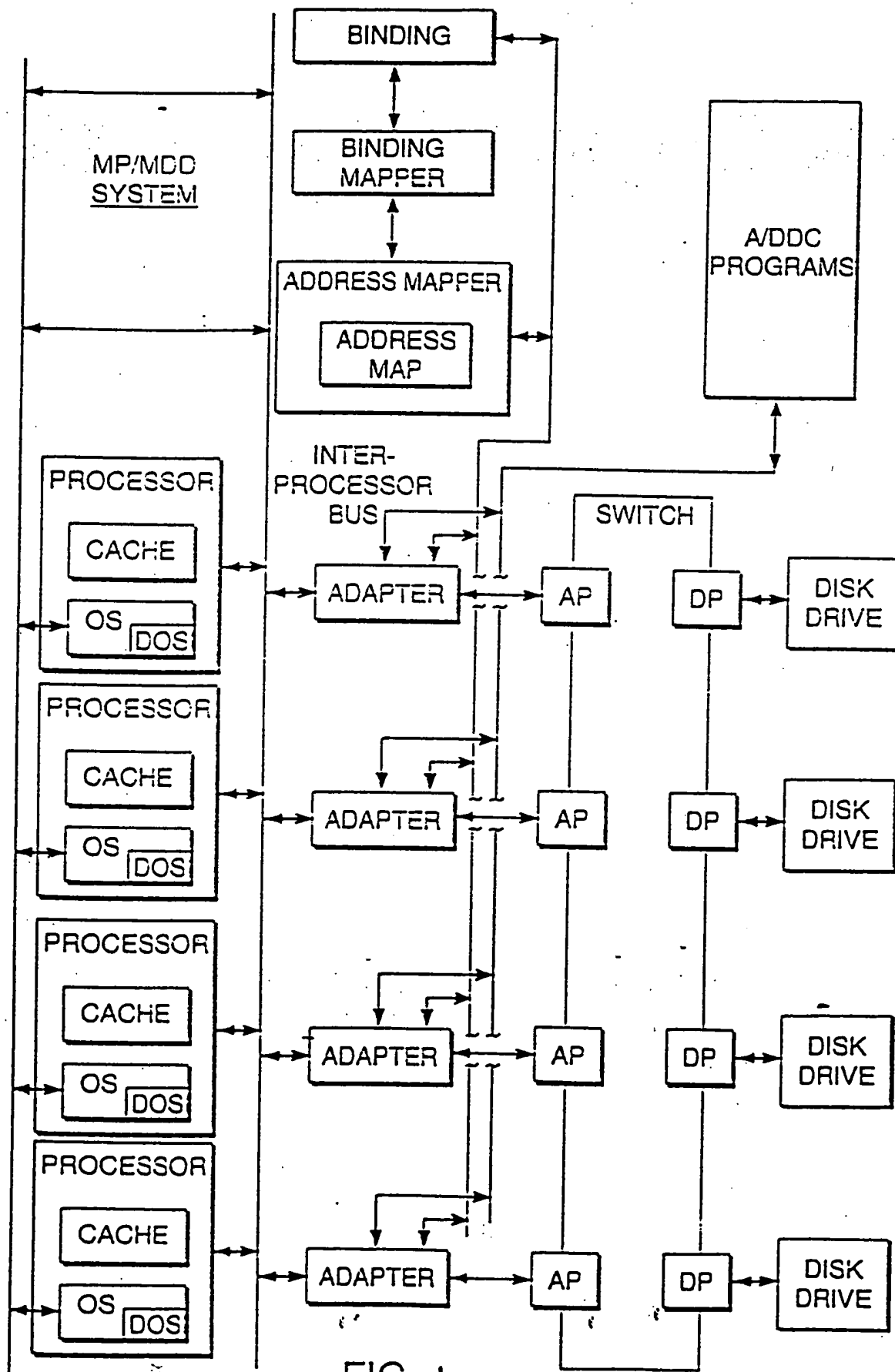
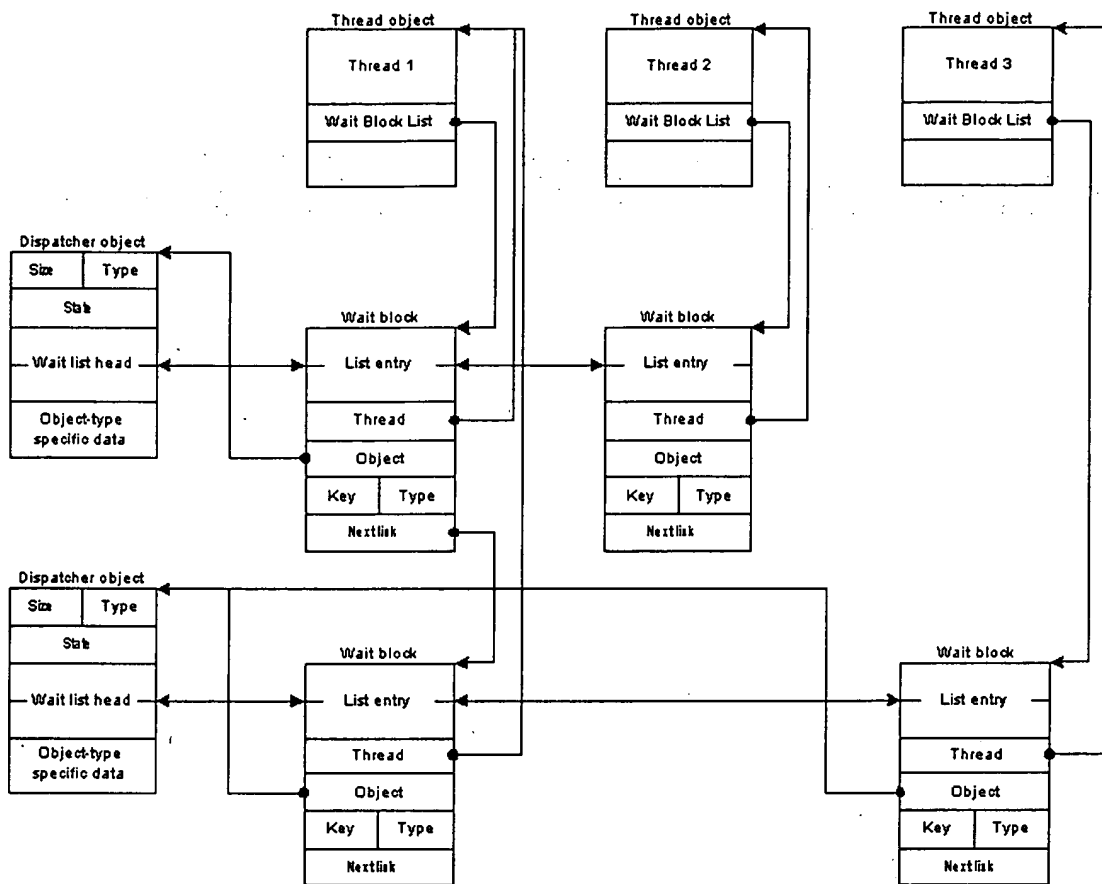


FIG. 1
PRIOR ART

FIG. 2
PRIOR ART

FIG. 3



**Dispatcher
object**

Mutex (kernel-mode use only)

State change

Owning thread releases the mutex.

*Resumed thread
acquires the mutex.*

Owning thread or other thread releases the mutex.

*Resumed thread
acquires the mutex.*

One thread releases the semaphore, freeing a resource.

A thread acquires the semaphore. More resources are not available.

A thread sets the event.

Kernel resumes one or more threads.

Dedicatied thread sets one event in the event pair.

Kernel resumes the other dedicated thread.

Timer expires.

A thread (re)initializes the timer.

Thread terminates.

A thread reinitializes the thread object.

Effect of signaled state on waiting threads

Kernel resumes one waiting thread.

Kernel resumes one waiting thread.

Kernel resumes one or more waiting threads.

Kernel resumes one or more waiting threads.

**Kernel resumes waiting
dedicated thread.**

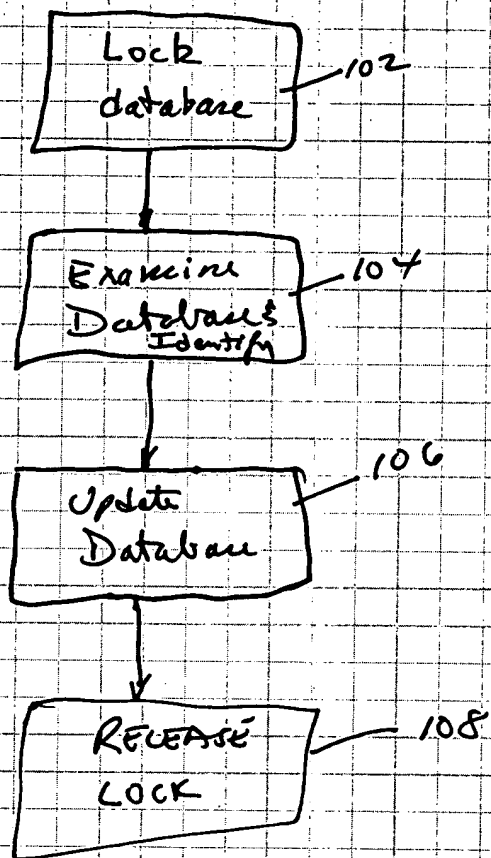
Kernel resumes all waiting threads.

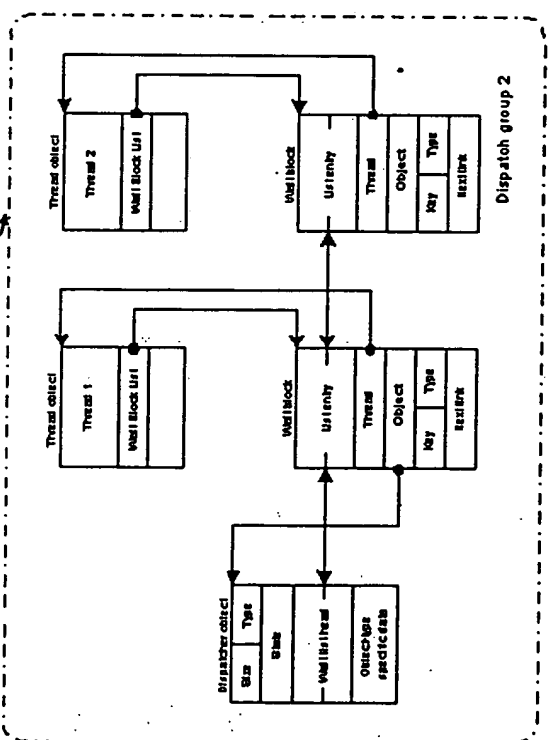
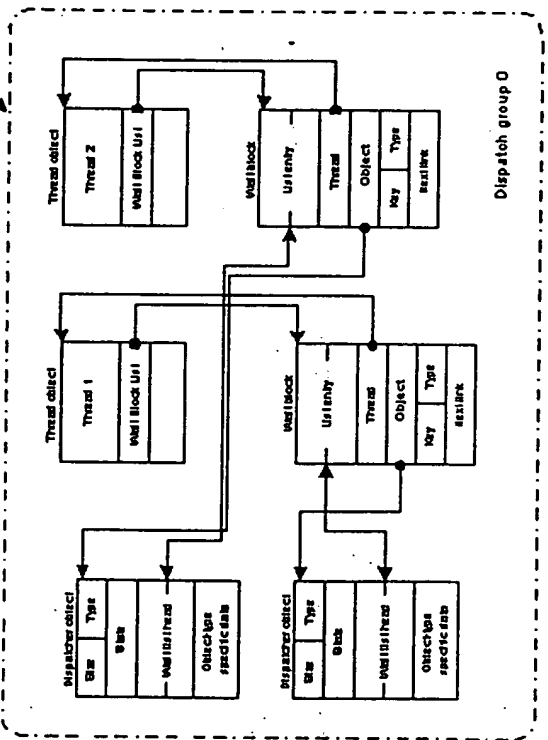
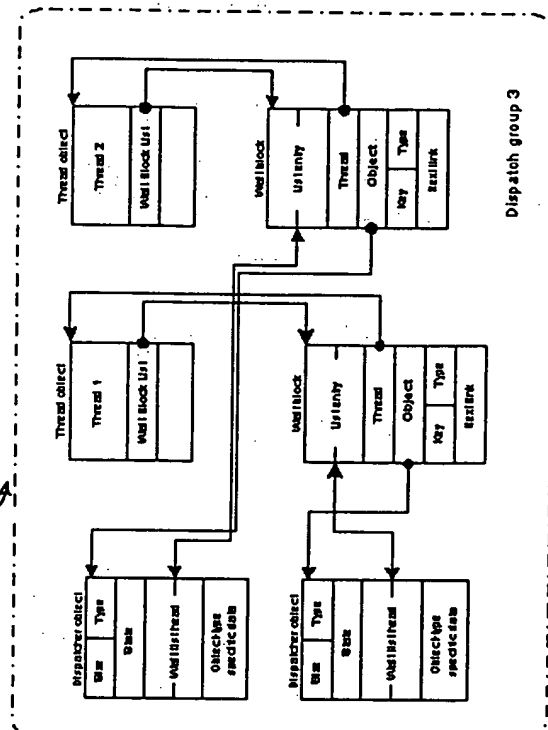
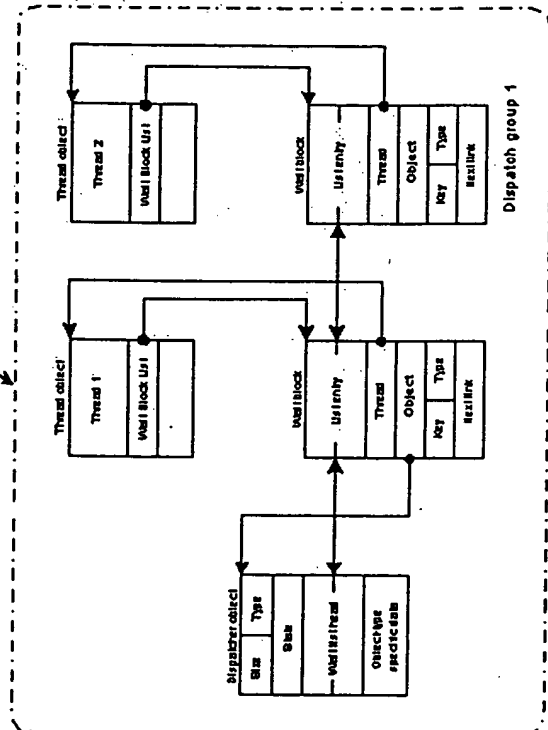
Kernel resumes all waiting threads.

FIG. 4



FIG. 5





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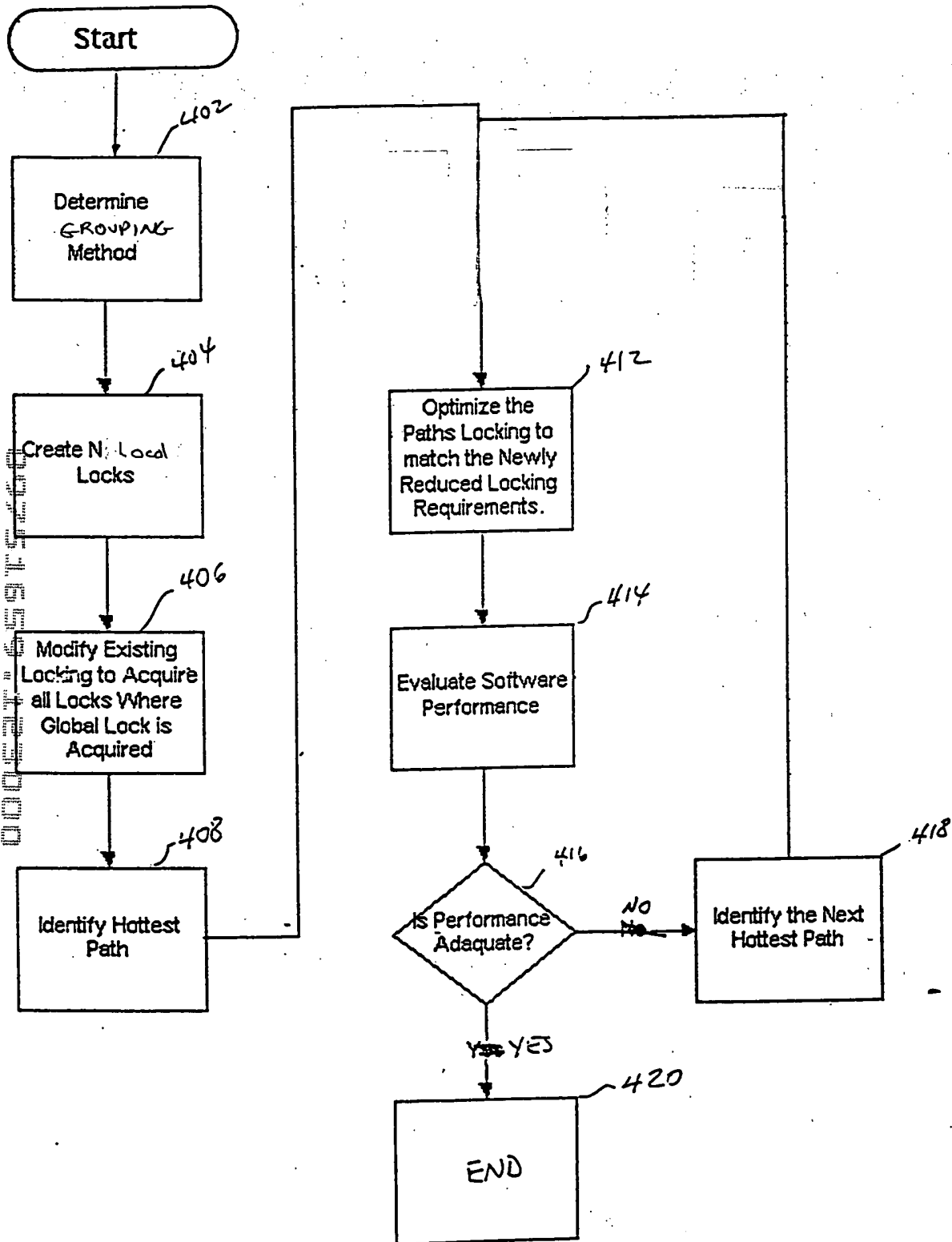


FIG. 7



FIG. 8A

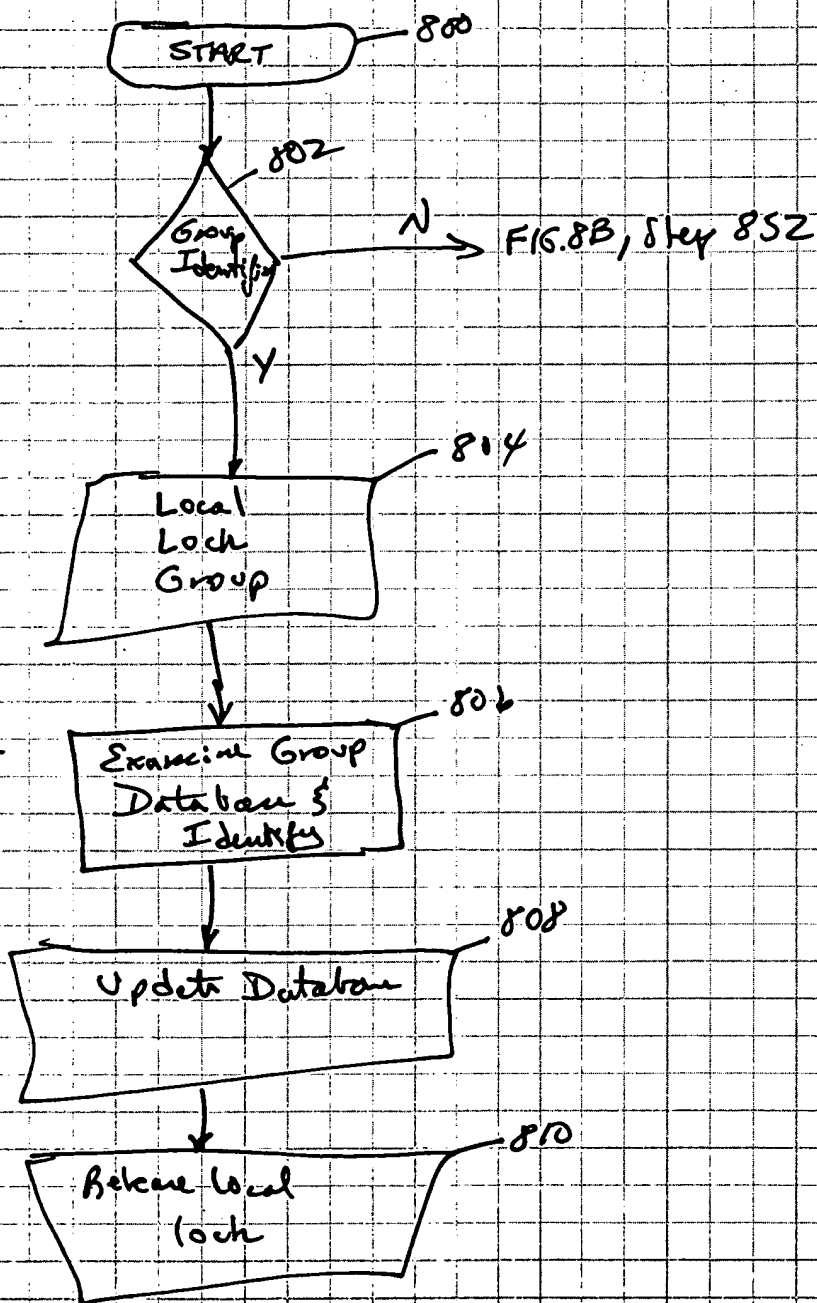


FIG. 8A



FIG. 8B

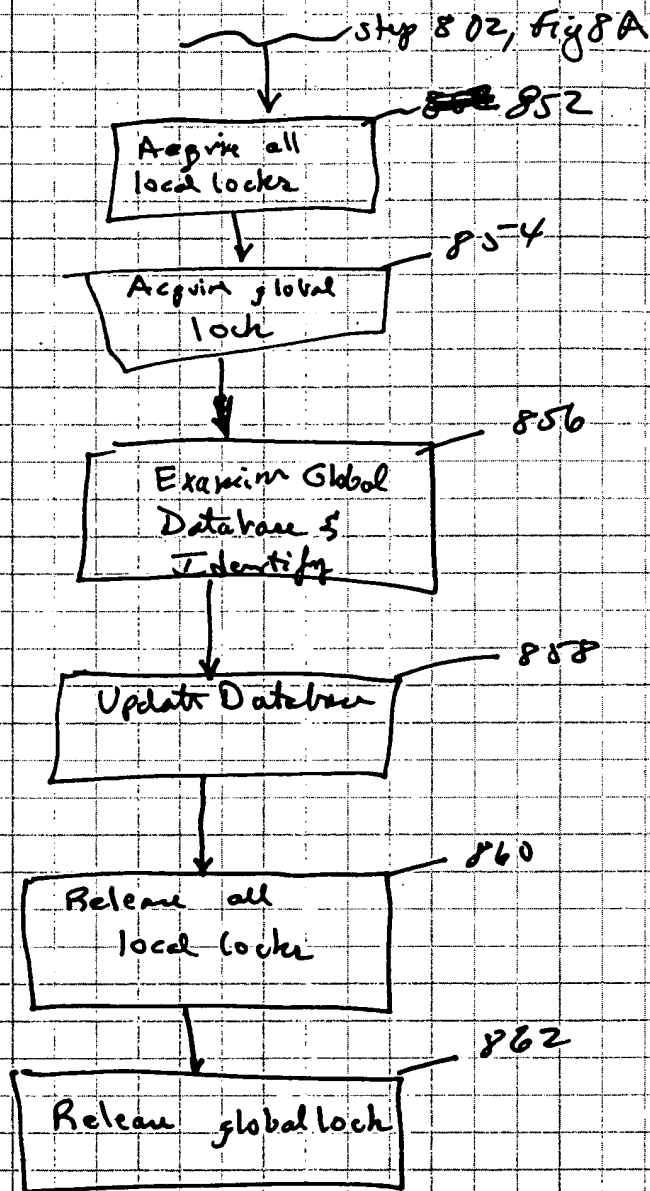


FIG. 8B